Ministry of
Natural
Resources

Ontario

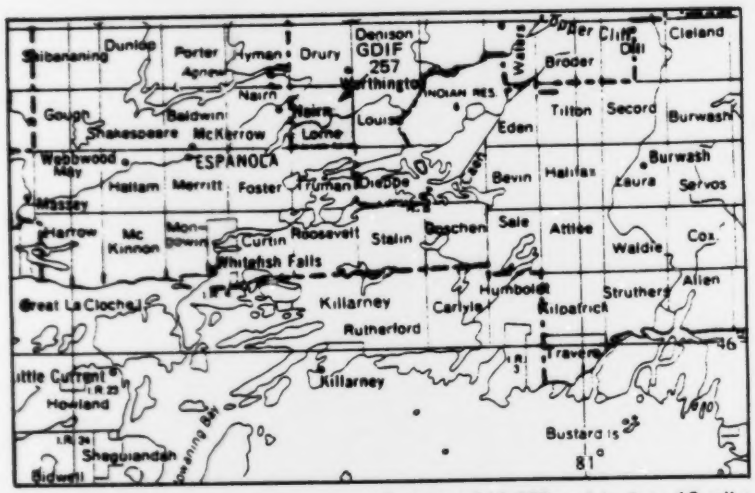
ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO

GDIF 257

LORNE TOWNSHIP

Compiled by the Staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

86-1423/

NTS Number 41 I/56

Mining Claim Map Number M 999

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1985: Lorne Township, District of Sudbury; Ontario Geological Survey, Geological Data Inventory Folio 257; Compiled by the Staff of the Resident Geologist's Office, Sudbury, 20p. and 2 maps.

Original Compilation by: Charette, Michael, Jan.24, 1985
MacNeil, Ronald James, Jan.24, 1985

Date	Page Revised	Revised by

Date	Page Revised	Revised by

LORNE TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map 1 map

Exploration Data Map 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	M.C.
2	Assessment Files Research Office, Toronto	N.A.	M.C.
3	ODM General Index; 7 volumes	Yes	M.C.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	M.C.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	M.C.
6	ODM Industrial Mineral Reports	No	M.C.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	M.C.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	M.C.
9	Newspaper Clippings File	Yes	M.C.
10	GSC Index to Publications	Yes	M.C.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	M.C.
12	OGS Index Maps	Yes	M.C.
13	Source Mineral Deposit Records (O.G.S.) Mineral Occurrences File	Yes	M.C.
14	Author - Subject Articles File	Yes	M.C.
15	Miscellaneous Papers: ODM & OGS	Yes	M.C.
16	ODM Geological Circulars: OGS Study Series, Reports	Yes	M.C.
17	ODM Preliminary Reports: ODM Bulletins	No	M.C.
18	ODM – OGS Open File Reports	Yes	M.C.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	M.C.
20	OGS Aggregate Resources Inventory Papers	N.A.	M.C.
21	OGS Mineral Potential Maps	Yes	M.C.
22	Theses on File, Sudbury	Yes	M.C.
23	Aerial Photographs on File, Sudbury	Yes	M.C.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite
△ ank. . . . . .Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . .Apatite
△ arg . . . . . Argentite
△ As . . . . . .Arsenic
△ asp . . . . . .Arsenopyrite
△ asb . . . . . .Asbestos
△ ba. . . . . .Barite
△ be. . . . . .Beryl
△ Bi. . . . . .Bismuth
△ bn . . . . . .Bornite
△ bran . . . . . .Brannerite
△ bruc . . . . . .Brucite
△ Cd . . . . . Cadmium
△ calc. . . . . .Calcite
△ carb . . . . . .Carbonate
△ cel . . . . . .Celestite
△ cc. . . . . .Chalcocite
▲ cp. . . . . .Chalcopyrite
△ ch. . . . . .Chert
△ clay . . . . . .Clay
△ Co . . . . . Cobalt
△ cob. . . . . Cobaltite
△ cb. . . . . .Columbite
▲ Cu . . . . . .Copper
△ cor . . . . . Corundum
△ dol . . . . . Dolomite
△ ep. . . . . Epidote
△ ery . . . . . Erythrite
△ fel . . . . . .Feldspar
△ fl . . . . . .Fluorite (flurospar)
△ fu. . . . . .Fuchsite
▲ gn. . . . . .Galena
△ gt . . . . . .Garnet
△ goe . . . . . .Goethite
△ Au . . . . . Gold
△ gf . . . . . .Graphite
△ gl . . . . . Gravel
△ gyp. . . . . .Gypsum
▲ hem . . . . . Hematite
△ il . . . . . .Ilmenite
△ Fe . . . . . .Iron
△ IF. . . . . Iron Formation
△ jas . . . . . Jasper
△ kaol . . . . . .Kaolinite (kaolin)
△ ky . . . . . Kyanite
△ Pb . . . . . Lead
△ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . Magnesite
△ mag . . . . . Magnetite
△ mc . . . . . Malachite
△ Mn . . . . . Manganese
△ mb . . . . . Marble
△ mar. . . . . Marcasite
△ ma . . . . . .Marl
△ mi . . . . . Mica
△ ml . . . . . .Millerite
△ mo . . . . . Molybdenite
△ Mo . . . . . .Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
△ nc. . . . . .Niccolite
▲ Ni. . . . . Nickel
△ Nb . . . . . .Niobium
△ Pd . . . . . .Palladium
△ peat . . . . . .Peat
△ pent . . . . . .Pentlandite
△ Pt. . . . . .Platinum
▲ py . . . . . .Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . .Pyrolusite
▲ po . . . . . .Pyrrhotite
△ q . . . . . Quartz
△ qcv . . . . .Quartz carbonate vein
△ ra. . . . . .Radioactive minerals
△ RE . . . . . .Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . .Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . .Scheelite
△ serp . . . . . Serpentine
△ sh. . . . . .Shale
△ sid . . . . . Siderite
△ si . . . . . .Silica
△ Ag . . . . . .Silver
△ sl . . . . . Slate
△ sm . . . . . .Smaltite
△ sod. . . . . Sodalite
△ spec . . . . . Specularite
▲ sp. . . . . .Sphalerite
△ spd. . . . . .Spodumene
△ staur. . . . . .Staurolite
△ stib. . . . . Stibnite
△ st . . . . . .Stone
△ talc. . . . . .Talc
△ Te . . . . . .Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . .Thorite
△ Th . . . . . .Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
△ tour . . . . . .Tourmaline
△ trap . . . . . .Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
△ U . . . . . .Uranium
△ verm . . . . . .Vermiculite
△ Y . . . . . Yttrium
▲ Zn . . . . . .Zinc
△ zr. . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Algoma Nickel Company Bell Lake Occurrence	Ni	-	MRC12, p.279	Ann. Rept., Vol.15, 1890-91, pt.R, p. 42, Geol. Surv. of Canada Barlow, A. E; Nickel & Copper Deposits of the Sudbury Mining District; Ann. Rept., Vol..4,1901, pt.H, pp.34,35,113, Geol. Surv. of Canada
B	Proulx Showing	po,cp		MRC12, p.278	O.D.M. GR35. p.41 O.D.M. Map 2062
C	Lorne Tp. Showing (Turpeinen Occurrence)	cp	Zn 1	MRC12, p.278	O.D.M. GR35, p.38 O.D.M. Map 2062
D	Tamminen Occurrence	Ni,Cu	-	MRC12, p.278	O.D.M. GR35, p.41 Map O.D.M. 2062
E	Teck Exploration Co. Ltd. Fensome Property	py,po,sp,cp	-	MRC12, p.278 p.253-254	Lorne File 11, 14 A1; O.D.M. GR35, p.38-40; Map O.D.M. Map 2062
F	Lot 8, Con.IV	py,po,cp	-	MRC12, p.278	O.D.M. Map 2063
G	Con.I, Lot 12	po,cp,py		MRC12, p.279	GR35, p.37 Map 2062
H	Con.V, Lot 10 S½	po,cp		MRC12, p.278	
I	Con.IV, Lot 12	po,cp		MRC12, p.279	
J	Con.I, Lots 10 & 11	py,po,sp,cp		MRC12, p.278	

GDIF FORM NO. 1

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
K	Con.V, Lot 4	cp			O.G.S. Map 2361
L	Con.IV, Lot 6	cp		MRC12, p.278	GR35, p.38
M	Con.V, Lot 11 N½	po,cp		MRC12, p.279	

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TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
1	Algoma Nickel Co.			91																
2	Cam Mines Ltd.							71												
3	Chayer, A.			74								74								
4	Inco Ltd.				59															
5.	Maki, L.				57															
6	Mining Endeavor Co. Ltd.				56															
7	Noranda Mines Ltd.							55					55							
8	Prosco Ltd.	58						58				57	57							
9	Rio Canadian Expl. Ltd.	56										56	56			56				
10	Teck Exploration Co.	53	53		53	53														

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
				Feet	Degrees	Feet	Feet		
1	Inco Ltd.	16601	1959	N-W	62	8	1236	-	-
2		16602	1959	N-W	66	10	1359	-	-
3		16603	1959	N-W	66	5	1099	-	-
4		16604	1959	N-W	56	12	564	-	-
5		16606	1959	N-W	66	28	1561	-	-
6	Maki, L.	1	1957	N90°E	50	0	97	cp,po	-
6a		2	1957	S45°W	65	0	75	py	-
6b		6	1959	S-E	50	0	355	py,po	-
7		3	1957	N90°E	50	0	80	py	-
7a		4	1957	N45°W	45	0	97	py	-
7b		5	1957	N/A	90	0	58	py	-
8	Mining Endeavor Co. Ltd.	S-2	1956	0°	83	-	54	po,cp	-
8a		56-6	1956	0°	50	9	192	-	-
9		S-1	1956	180°	55	-	25	po,cp	-
9a		S-3	1956	280°	55	-	42	cp,po	-
9b		E-1	1956	10°	60	-	72.9	po,cp	-
9c		E-2	1956	170°	63	-	75	py,po,cp	-
9d		E-3	1956	0°	65	-	72.8	cp,po	-
9e		E-4	1956	180°	45	-	73.5	-	-
9f		E-5	1956	0°	90	-	75.5	cp	-
9g		E-6	1956	0°	90	-	72.5	-	-
9h		E-7	1956	0°	90	-	70	py	-
9i		56-6	1956	0°	45	12	241	po	-
9j		56-3	1956	0°	90	6	270	-	-
9k		56-4	1956	0°	90	2	584	-	-
10		56-1	1956	0°	65	15	301	cp,po	-
10a		56-5	1956	12	50	5	204	-	-
11	Teck Expl. Co. Ltd.	T-26	1953	N66°W	47	12	339	py,po,pc,sp	Zn
12		T-28	1953	S15°E	46	7	761	py,po,sp	-
13		T-25	1952	N67°W	47	15	395	py,sp,hem,po,cp	Zn,Ni
14		T-4	1952	S15°W	45	0	529		-
15-15q		T-1-T-19	?	NW	No	Data			Zn,Cu,Ag,Ni
16-16d		T-20-T-24	?	NW	No	Data			Zn

GDIF FORM NO. 3

LORNE TOWNSHIP

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

GDTF FORM NO. 4

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
1	?	Zn,Cu	Teck Exploration	Lorne File 10-01

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

Cam Mines
Northern Miner January 20, 1972

Texore Mines
Northern Miner January 14, 1965

GDIF FORM NO. 7

ODM GENERAL INDEX SEARCH

Words searched:

ALGOMA NICKEL CO.
BEAVER LAKE
BELL LAKE
FENSOM PROPERTY
LORNE TO.
MINING ENDEAVOR CO. LTD.
NORANDA MINES LTD.
PLUM U & METAL MNG. LTD.
PROULX, A. PROSPECT
QUARTZ VEINS
RIO CANADIAN EXPLORATIONS
SUDBURY MINES LTD.
TAMMINEN PROSPECT
TECK CORP.
TECK EXPL. CO.
TECK-HUGHES GOLD MINES

Index Volume	Listing:	Report Volume	Part	Page
1	ALGOMA NICKEL CO.	1		233
7	BEAVER LAKE FAULT, Lorne Tp.			
	Prospecting recommended	GR35		42
	Shear Zone	GR35		37,38,41
7	BELL LAKE, Lorne Tp.			
	Nickel Prospect Report O.M.	GR35		37
5	ESPANOLA FORMATION	50	6	4-16
7	FENSOM FAULT, Lorne Tp.			
	Prospecting recommended	GR35		38,42
	Fensom Deposit	38	7	37-39
7	FENSOM FAULT, Lorne Tp.			
	Report on	MRC1		51
		GR35		38-40
	Plan and sections	GR35		39,40
5	LORNE TP., Sudbury			
	Fault	61	4	24,26
7	LORNE TP., Sudbury			
	Mining prospects	GR35		38-41
	Location Map	GR35		27
	Report on geology & map	GR35		
2	LORNE TP.			
	Nickel Deposits, character		NC	R208
1	LORNE TP., Sudbury			
	Nickel	14	3	145
	Prospecting	14	1	233
3	LORNE TP.			
	Zinc,Copper Deposits	38	7	37-39
	Geological Sketch Map	38	7	38
8	LORNE TP.			
	Zinc, Copper	MRC12		253-254
3	MINING ENDEAVOR LTD.			
	Incorporated	62	1	46

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
7	NORANDA MINES LTD.			
	Proulx Showing Lorne Tp.	GR35		41
5	PLUM U & METAL MINING LTD.			
	Incorporated	63	1	58
7	PROULX, A. PROSPECT			
	Lorne Tp., Report on	GR35		41
7	QUARTZ VEINS			
	Nairn & Lorne Tps.	GR35		28,30, 32,38, 42
9	QUIRKE LAKE GROUP			
	Espanola-Whitefish Falls area Sudbury Dist.	GR131		8,14-15
7	RIO CANADIAN EXPLORATION			
	Option on Tamminen prospect	GR35		41
3	SUDBURY MINES LTD.			
	Drilling by Lorne Tp.	38	7	37
	Incorporated	37	1	59
7	TAMMINEN PROSPECT, Lorne Tp.			
	Report on	GR35		41
7	TECK CORPORATION LTD.			
	See also Teck-Hughes Gold Mine Ltd.	73		64-66
7	TECK EXPLORATIONS CORP. LTD.			
	Option on Fensom property, Lorne Tp.	GR35		38
7	TECK-HUGHES GOLD MINES LTD.			
	See also Teck Explorations Co.	73		64
3	TECK EXPLORATIONS Co. LTD.			
	Subsidiary of Teck Hughes	49	1	206
8	TURPEINEN	MRC12		260

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D.	1971	Panache Lake Area, West Part	O.D.M. Map P.668	1"=1 mile
	1971	Panache Lake Area, East Part	O.D.M. Map P.669	1"=1 mile
	1978	Sudbury-Manitoulin Area	O.G.S. Map 2360	1"=2 miles
Card, K. D., & Lumbers, S. B.	1974,75	Sudbury-Cobalt	O.G.S. Map 2361	1"=4 miles
Thomson, J. E.	1961,68	Espanola Sheet	O.D.M. Map P.105	1"=2 miles
		GEOPHYSICAL MAPS		
		Aeromagnetic Maps		
O.D.M -G.S.C.	1965	Copper Cliff	1517G	1"=1 mile
	1965	Espanola	1523G	1"=1 mile
O.D.M.	1952	Lorne Township	A60	1"=¼ mile
O.D.M.-G.S.C.	1965	Sudbury, Ontario	7067G	1"=4 miles
O.G.S.	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey. Geophysical Series	Map P.1610	1:250,000
Gupta, V. K.	1981	Bouguer Gravity and Generalized Geological Map of the Sudbury-Onaping Lake Area, Sudbury and Algoma District, Ontario	O.G.S. Map P.2482	1:100,000
		SURFICIAL PLEISTOCENE, TERRAIN ENGINEERING		
Dep't of Energy, Surveys & Mapping Branch	1975	Topographic Map, Copper Cliff	41 I/6	1:50,000
	1975	Topographic Map, Espanola	41 I/5	1:50,000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Gartner, J. F.	1978 1980	N.O.E.G.T.S. Data Base Map, Espanola N.O.E.G.T.S. Study 99, Espanola Area	Map 5002	1"=1000,000
		MINERAL POTENTIAL MAPS		
Springer, J.	1977	Ontario Mineral Potential, Northern Part of Sudbury Sheet and Part of North Bay Sheet	O.G.S. Map P,1512	1:250,000
		GEOCHEMICAL		
		No Data Available, Jan.22/85		
		Geological Reports and Maps		
Bell, R.	1891	Report on The Sudbury Mining District	G.S.C. AR5, pt.F	
Card, K. D.	1975	Geology of the Panache Lake Area, Dist. of Sudbury and Manitoulin	OFR5123	
	1968	Economic Geology of the Espanola-Whitefish Falls Area	OFR5017	
	1971	Panache Lake Area (West Part)	O.D.M. Map P.668	1"=1 mile
	1971	Panache Lake Area (East Part)	O.D.M. Map P.669	1"=1 mile
	1978	Sudbury-Manitoulin Area, Districts of Sudbury and Manitoulin	O.D.M. GR166 O.D.M. Map 2360	
Card, K. D., Innes, D. G. and Debicki, R. L.	1974	Stratigraphy, Sedimentology, Huronian Supergroup of Sudbury-Espanola	OFR5107	

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Ginn, R. M.	1958	Nairn and Lorne Townships	O.D.M. Map P.48	1"=¼ mile
	1965	Nairn and Lorne Townships	O.D.M. GR35	
			O.D.M. Map 2062	1"=½ mile
Moore, E. S.	1929	Ore Deposits Near the Shore of Lake Huron	O.D.M. AR38, pt.7	pp.48,49
	1935	Part of the Sudbury Nickel Area Map 43d	O.D.M. AR43	1"=3/4 mile
O.G.S. & Mineral Resources Branch	1982	Mineral Potential Map of Ontario	OFR5328	
		East Central Sheet		1"=16 miles
		Magnetic Compilation Map		1"=16 miles
		Geological Compilation Map	Map 2198	1"=16 miles
Royal Commission	1917	Report of The Royal Commission on the Mineral Resources of Ontario		p.208
Shklanka, R.	1969	Copper, Nickel, Lead and Zinc Deposits of Ontario	O.D.M. MRC12	pp.270,282
Vos, M. A., Smith, B. A. Stevenato, R. J.	1981	Industrial Minerals of the Sudbury Area	OFR5329	
Yundt, S. E., et al	1983	Industrial Minerals of Ontario	O.G.S. Map P.2591	1:50,000
		JOURNALS ARTICLES, THESES, TECHNICAL REPORTS		
Casshyap, S. M.	1966	Sedimentary Petrology and Stratigraphy of the Huronian Rocks South of Espanola, Ont. Ph.D., Western	Sudbury Theses File No.2	
Cooke, H. R. H.	1951	Sulphide Deposits West of Sudbury. B.Sc. Queen's	MP2	p.15
Eade, K. E.	1950	The Huronian Rocks of Northwestern Ontario.	MP2	p.34

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Ginn, R. M.	1960	The Relationship of the Bruce Series to the Granites in the Espanola Area. Ph.D., UT.	MP2	p.20
Long, D. G. F.	1978	Depositional Environments of a thick Proterozoic Sandstone; the (Huronian) Mississagi Formation of Ontario, Canada.	Can. J. Earth Sci., Vol.15	pp.190-206
Lindsey, D. A.	1967	The Sedimentology of the Huronian Gowganda Formation, (With Special Reference to Whitefish Falls Area). Ph.D., Johns Hopkins.	Sudbury Theses File No.16	
Lindsey, D. A.	1969	Glacial Sedimentology of the Precambrian Gowganda Formation, Ontario, Canada	Geol. Soc. Am. Bull., 80	pp.1685-1702
McLennan, S. M., Fryer, B. J., Young, G. M.	1979	The geo-chemistry of the carbonate-rich Espanola Formation (Huronian) with emphasis on rare earth elements	Can. J. Earth Sci., Vol.16	pp.230-239
Palonen, P. A.	1971	Stratigraphy and Deformational Environment of the Mississagi Fm., Ont. M.Sc. Calgary	Sudbury Theses File No.18	
Quirke, T. T.	1915	Geology of Espanola District, Ontario Ph.D., UC.	MP2	p.38
Roscoe, S. M.	1969	Huronian Rocks and Uraniferous Conglomerates	G.S.C. Paper 68-40	205p.
Schenk, P. E.	1965	Depositional Environment of the Gowganda Formation (Precambrian) at the south end of Lake Timagami, Ontario	J. Sed. Pet., Vol.135	pp.309-318
Thachuk, N. M.	1960	The Origin of the Gowganda Banded Argillite. B.A.Sc., UT.	MP2	p.44

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Wright, J. D.	1935	The Age of Some Granite Batholiths North of Lake Huron and the Genetic Relations of the Arsenical Gold Ores to the Keweenawan Granites. Ph.D., UT.	MP2	p.48
Young, G. M.	1973	Origin of the carbonate-rich Early Proterozoic Espanola Formation, Ontario, Canada	Geol. Soc. Am. Bull., Vol.84	pp.135-160
Young G. M.	1981	The Early Proterozoic Gowganda Formation, Ontario Canada	Earth's Pre-Pleistocene Glacial Record. Cambridge U. Press	pp.807-812

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages

GDIF FORM NO. 9

NOTES AND ADDENDA

Aerial Photographs Index

Scale 1"=¼ mile

Year	Roll	Line	Numbers
1959	59	4613	144
1946	19	161	26-33
	200	162	7-10
	17	162	27-33
	17	163	23-31
	15	164	26-34
	14	165	2-9

GDIF FORM NO.10

Ministry of Natural Resources

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 257

(Map 1 of 2)

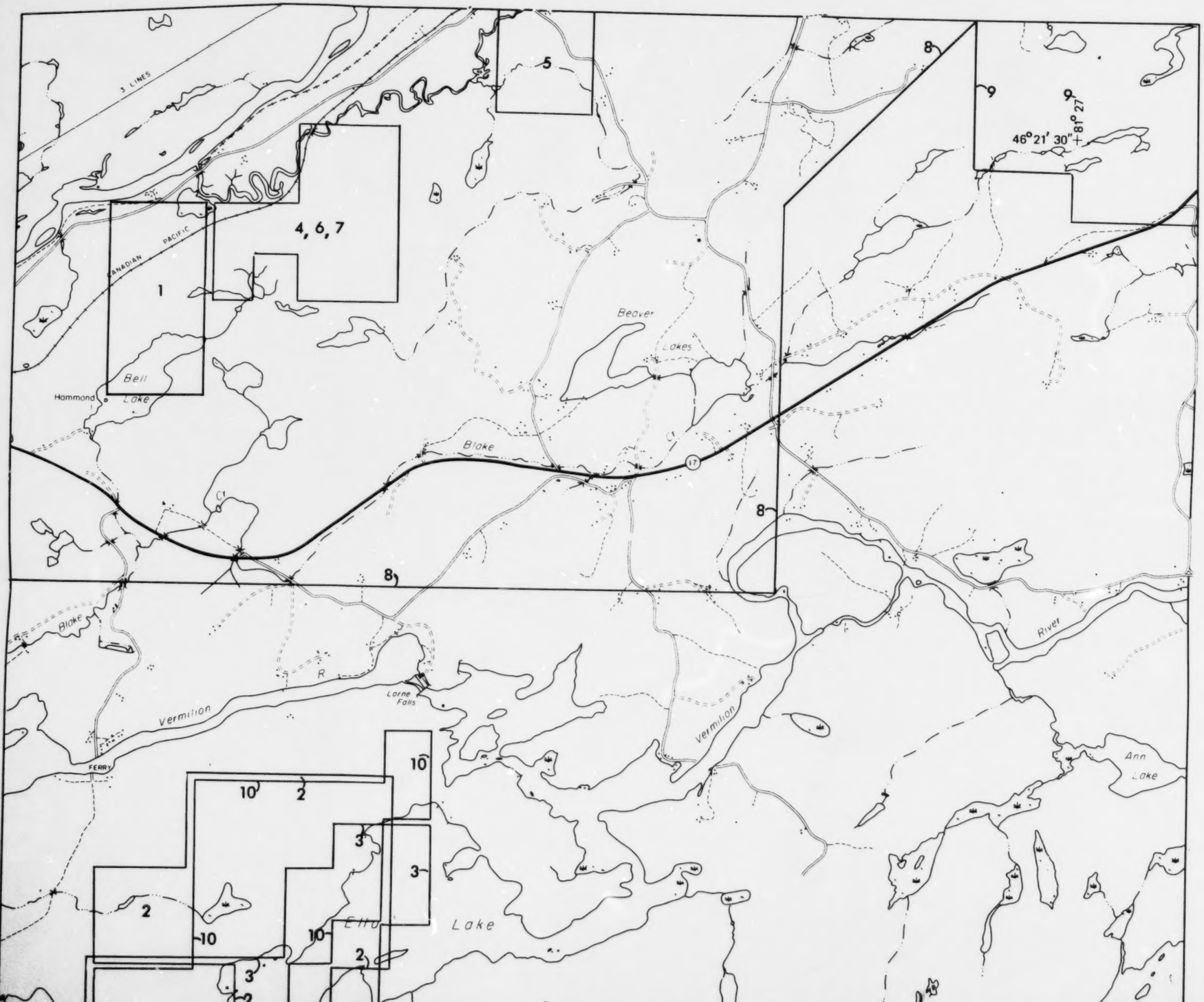
LORNE TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre



ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 257

(Map **1** of **2**)

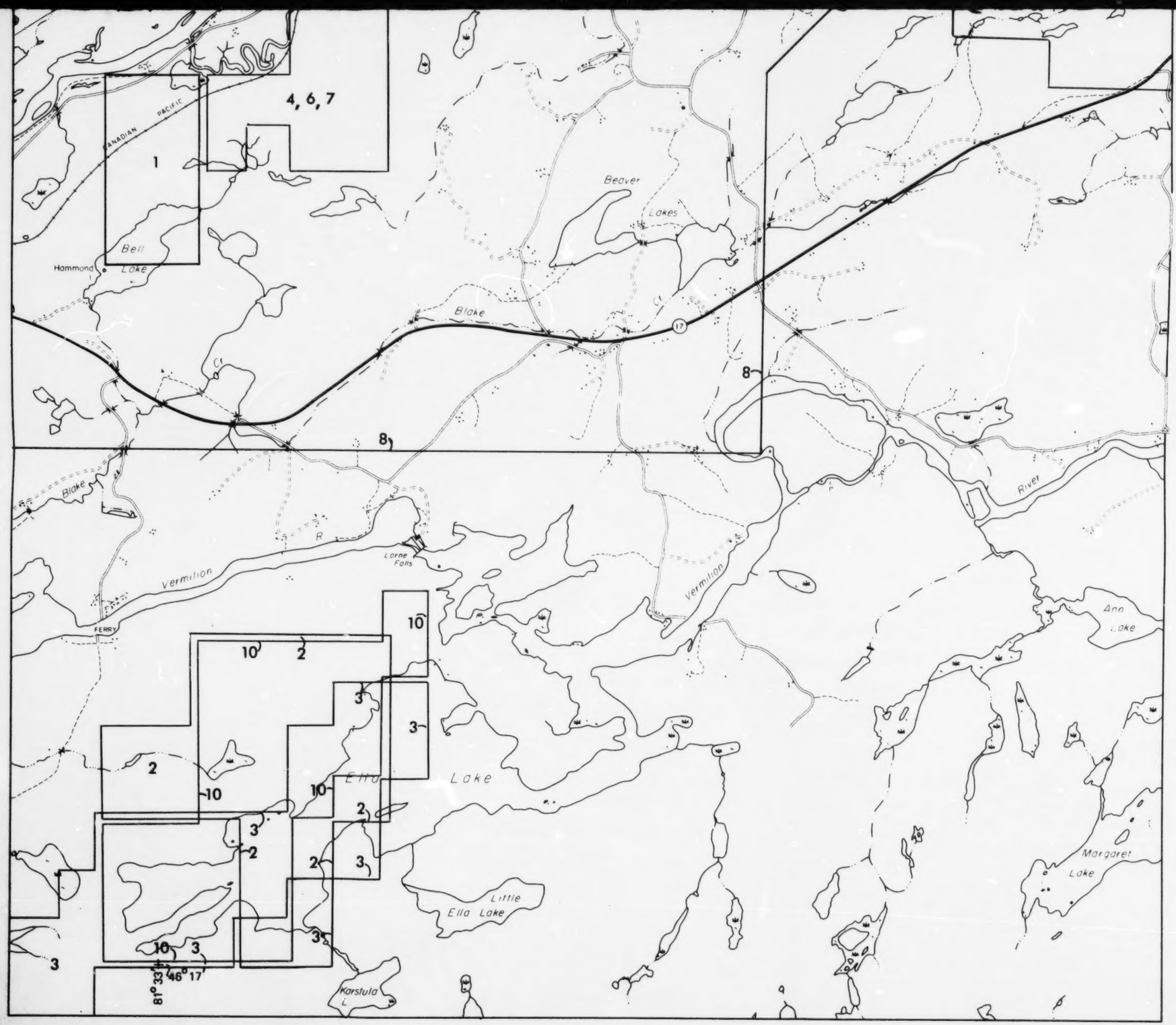
LORNE TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre



EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined. See listing in text pages.

Small area of exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

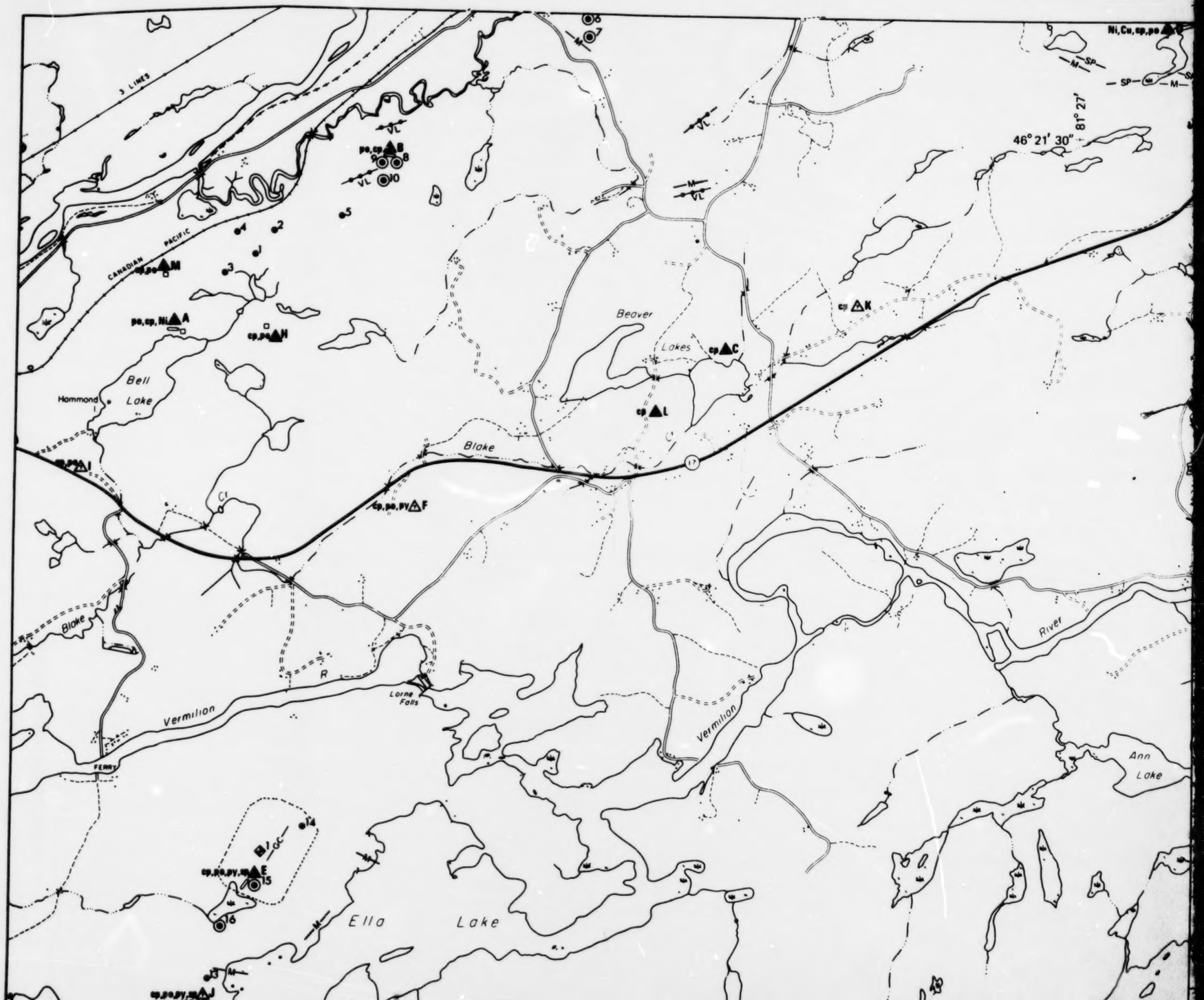
- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number
- GC — Geochemical Anomaly

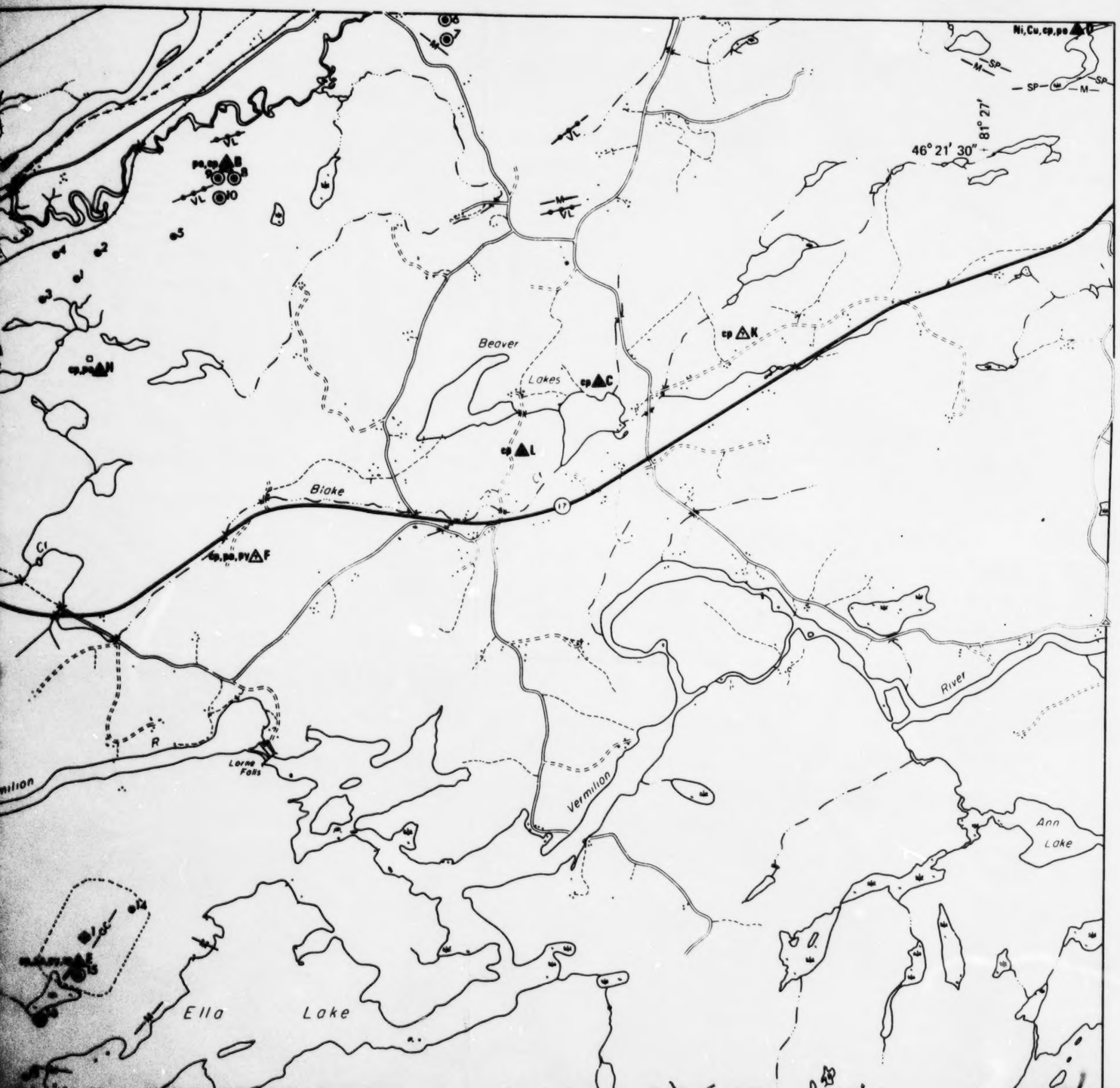
GEOPHYSICAL ANOMALIES

- AM — Airborne Magnetometer Anomaly
- Airborne Electromagnetometer Anomaly
  Length of anomaly along flight line
- Airborne Electromagnetometer Anomaly.
  Location of anomaly along flight line
- Airborne Electromagnetometer Anomaly
  Conductor Axis: definite, probable, possible
- ARA — Airborne Radiometric Anomaly
- M — Ground Magnetometer Anomaly
- VL — Ground Electromagnetometer Anomaly
  (VL - Vertical Loop; HL - Horizontal Loop;
  VLF - Very low freq; Turam; JEM -
  Crone EM - 16)
- RA — Ground Radiometric Anomaly
- IP — Induced Polarization Anomaly
- SP — Self Potential Anomaly
- AFMAG — Audio-frequency magnetometer anomaly
  (total intensity)
- R — Resistivity Anomaly
- GR — Gravity Anomaly
- Radiometric Site

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Rock quarry
- Sand and/or gravel pit





Ministry of Natural Resources

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 257

(Map **2** of **2**)

LORNE TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized Float with reference letter

DRILL HOLES

- Location of single drill hole, with reference number
- Location of closely spaced group of drill holes, with reference number

Area of geochemical sampling, with reference number

Age dating material sampling site, with reference number

GC — Geochemical Anomaly

GEOPHYSICAL ANOMALIES

AM — Airborne Magnetometer Anomaly

Airborne Electromagnetometer Anomaly
Length of anomaly along flight line

Airborne Electromagnetometer Anomaly.
Location of anomaly along flight line

Airborne Electromagnetometer Anomaly
Conductor Axis: definite, probable, possible

ARA — Airborne Radiometric Anomaly

M — Ground Magnetometer Anomaly

VL — Ground Electromagnetometer Anomaly
(VL - Vertical Loop; HL - Horizontal Loop;
VLF - Very low freq; Turam; JEM -
Crone EM - 16)

RA — Ground Radiometric Anomaly

IP — Induced Polarization Anomaly

SP — Self Potential Anomaly

AFMAG — Audio-frequency magnetometer anomaly
(total intensity)

R — Resistivity Anomaly

GR — Gravity Anomaly

Radiometric Site

MISCELLANEOUS DATA

Trenching, pit

Adit

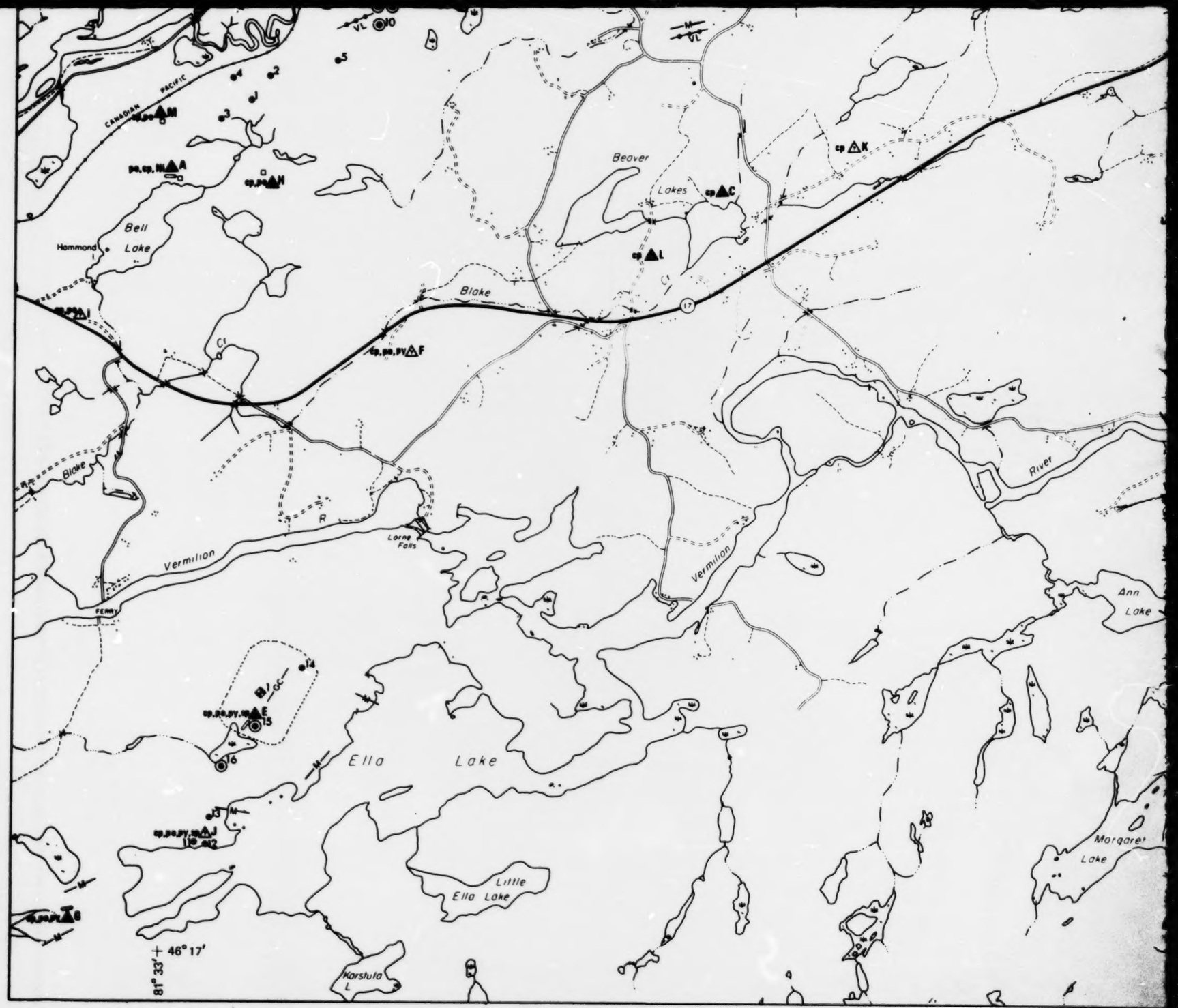
Open pit

Multiple Pits

Rock quarry

Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 257

(Map 2 of 2)

LORNE TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 94' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized Float with reference letter

DRILL HOLES

- 2 — Location of single drill hole, with reference number
- 2 — Location of closely spaced group of drill holes, with reference number
- ?2 — Drill hole, exact location uncertain, with reference number.
- Property with underground drill holes in this general area, with reference number
- 2 — Property with drill holes which have not been plotted on map, with reference number
- 2 — Reverse Circulation Drill Hole; Churn drilling, with reference number

G-3116 2.2.7